Washington Department of Ecology Submission Cover Letter

WQWebSubmittal - Submittal Submission Id: 1565207 - 2/2/2017 9:22:08 AM

Report Received Dated: 2/2/2017 9:22:10 AM

Company Name	Signer Name	System Name
City of Pullman	Kevin Gardes	WQWebPortal

Attachments:

Document Name of Description	Document File Name
Submitted Copy of Record for City of Pullman	Copy of Record CityofPullman Thursday February 2 2017
WAR046504_45_01242017010402	2016 Annual Report Narrative_45_01242017010402
WAR046504_5_01242017114142	2016 Annual Report Narrative_5_01242017114142
WAR046504_2_01122017045401	Germain Farms Annexation 2016_2_01122017045401
WAR046504_17_01242017120517	2016 Annual Report Narrative_17_01242017120517
WAR046504_46_01242017010402	2016 Annual Report Narrative_46_01242017010402
WAR046504_6_01242017114142	2016 Annual Report Narrative_6_01242017114142
WAR046504_1_02022017091642	Pullman 2017 SWMP_1_02022017091642

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

For Ecology Use Only ---
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DEPARTMENT OF ECOLOGY
State of Washington

Water Quality Program

Permit Submittal Electronic Certification

Permittee: PULLMAN CITY

Permit Number: WAR046504 **Site Address:** CITY OF PULLMAN
Pullman, WA 99163

Submittal Name: MS4 Annual Report Phase II Eastern

Version: 1 **Due Date:** 3/31/2017

Questionnaire

Number	Permit Section	Question	Answer
1	S5.A.3	Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.3)	Pullman 2017 SWMP_1_02022017091642
2	S9.D.5	Attach a map and copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period per S9.D.5.	Germain Farms Annexation 2016_2_01122017045401
3	S5.A.4.a.ii	Tracked the estimated costs of implementation of each component of the SWMP. (S5.A.4.a.ii)	Yes
4	S5.A.5.b	Coordinated among departments within the jurisdiction to eliminate barriers to permit compliance. (S5.A.5.b)	Yes
5	S5.B.1.a and b	Attach description of public education and outreach programs and stewardship activities conducted per S5.B.1.a and b.	2016 Annual Report Narrative_5_01242017114142
6	S5.B.2.a	Describe the opportunities created for the public to participate in the decision making processes involving the development, implementation and updates of the Permittee's SWMP. (S5.B.2.a)	2016 Annual Report Narrative_6_01242017114142
7	S5.B.2.b	Posted the updated SWMP Plan and latest annual report on your website no later than May 31. (S5.B.2.b)	Yes
7b	S5.B.2.b	List the website address.	www.pullman-wa.gov
8	S5.B.3.a	Maintained a map of the MS4 that includes the requirements listed in S5.B.3.a.	Yes
9	S5.B.3.b.vi	Implemented a compliance strategy, including informal compliance actions as well as enforcement provisions of the regulatory mechanism described in S5.B.3.b. (S5.B.3.b.vi)	Yes
10	S5.B.3.b.vii	Updated, if necessary, the regulatory mechanism to effectively prohibit illicit discharges into the MS4 per S5.B.3.b.vii. (Required, if applicable, no later than February 2, 2019)	Not Applicable
11	S5.B.3.c	Implemented procedures for conducting illicit discharge investigations in accordance with S5.B.3.c.	Yes

12	S5.B.3.c.iii	Percentage of MS4 coverage area screened in reporting year per S5.C.3.c.i. (Required to screen 40% of MS4 no later than December 31, 2018 and 12% on average each year thereafter, S5.B.3.c.iii)	25
13	S5.B.3.c.iv	Publicized a hotline telephone number for public reporting of spills and other illicit discharges. (S5.B.3.c.iv)	Yes
13b	S5.B.3.c.iv	List the hotline number.	509-338-3213
14	S5.B.3.c.v	Implemented an ongoing illicit discharge training program for all municipal field staff per S5.B.3.c.v.	Yes
15	S5.B.3.c.vi	Informed public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste. (S5.B.3.c.vi)	Yes
15b	S5.B.3.c.vi	Describe actions.	Personal interaction and coordination with other city departmental staff. Personal interaction with business owners and managers. Personal interactions with members of the public both individually and during city sponsored events. Also informed the public via information on the city's website.
16	S5.B.3.d	Number of illicit discharges, including illicit connections, eliminated during the reporting period. (S5.B.3.d)	9
17	S5.B.3.d.iv	Attach a summary of actions taken to characterize, trace and eliminate each illicit discharge found by or reported to the permittee. For each illicit discharge, include a description of actions according to required timelines per S5.B.3.d.iv.	2016 Annual Report Narrative_17_01242017 120517
18	S5.B.3.e	Implemented an ongoing illicit discharge training program for all staff responsible for implementing the procedures and program, as described in S5.B.3.e.	Yes
19	S5.B.4.a	Implemented an ordinance or other regulatory mechanism and enforcement procedures for construction site stormwater runoff control as described in S5.B.4.a.	Yes
20	S5.B.4.b	Reviewed Stormwater Site Plans, including construction SWPPPs for all new development and redevelopment projects. S5.B.4.b.	Yes
20b	S5.B.4.b	Number of site plans reviewed during the reporting period.	38
21	S5.B.4.c	Implemented procedures for site inspection and enforcement of construction stormwater pollution control measures. (S5.B.4.c)	Yes
21b	S5.B.4.c.iii	Number of permitted construction sites inspected during the reporting period, (S5.B.4.c.iii)	26

22	S5.B.4.c	Number of enforcement actions taken during the reporting period based on construction phase inspections at new development and redevelopment projects. (S5.B.4.c)	0
23	S5.B.4.b.ii and S5.B	Trained the staff involved in permitting, plan review, field inspections and enforcement for construction site runoff control. (S5.B.4.b.ii and S5.B.4.c.ii)	Yes
24	S5.B.4.d	Provided information to construction site operators and design professionals about training available on how to comply with the requirements in Appendix 1 and the BMPs in the SWMMEW, or an equivalent document. (S5.B.4.d)	Yes
24b	S5.B.4.d	Cite website address, if located on your website.	www.pullman-wa.gov
25	S5.B.4.e	The number of construction sites that provided their intent to apply for the "Erosivity Waiver" as described in (S5.B.4.e).	0
26	S5.B.4.e	The number of complaints investigated about sites that have received an "Erosivity Waiver" and describe any enforcement actions taken as a result. (S5.B.4.e)	Not Applicable
27	S5.B.5.a.	Implemented ordinance or other regulatory mechanism and enforcement procedures as described in S5.B.5.a.	Yes
31	S5.B.5.b	Implemented procedures for post-construction site plan review. (S5.B.5.b)	Yes
32	S5.B.5.c.ii	Inspected post-construction stormwater controls, including structural BMPs, during installation at new development and redevelopment projects. (S5.B.5.c.ii)	Yes
32b	S5.B.5.c.ii	Number of sites inspected during the reporting period. (S5.B.5.c.ii)	8
33	S5.B.5.c	Number of enforcement actions taken during the reporting period? (S5.B.5.c)	0
34	S5.B.5.c.iii	Inspected structural BMPs at least once every five years after final installation. (S5.B.5.c.iii)	Yes
34b	S5.B.5.c.iii	Number of BMPs inspected during the reporting period. (S5.B.5.c.iii)	20
35	S5.B.5.d	Trained the staff involved in permitting, plan review, inspection and enforcement for post-construction stormwater control. (S5.B.5.d)	Yes
37	S5.B.6.a	Implemented the schedule of Operation and Maintenance activities for municipal operations. (S5.B.6.a)	Yes
38	S5.B.6.a.i (f) and (	Have NPDES permit coverage for all applicable Permittee construction projects and industrial facilities. (S5.B.6.a.i (f) and (g))	Yes
39	S5.B.6.a.ii (a)	Inspected stormwater treatment and flow control facilities (except catch basins) owned or operated by the Permittee at least once every two years. (S5.B.6.a.ii (a))	Yes
39b	S5.B.6.a.ii (a)	Number of facilities inspected during the reporting period. (S5.B.6.a.ii (a))	10

41	S5.B.6.a.ii (b)	If used an alternative to standard schedule for catch basin inspections for all or a portion of the MS4, attach description of the method used. (S5.B.6.a.ii(b))	Not Applicable
42	S5.B.6.a.ii(c)	Conducted spot checks of stormwater facilities after major storms. (S5.B.6.a.ii (c))	Yes
43	S5.B.6.b	Trained the staff with primary construction, operations, or maintenance job functions that are likely to impact stormwater quality. (S5.B.6.b)	Yes
44	S7.A	Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2. (S7.A)	Yes
45	S7.A	For TMDLs listed in Appendix 2: Attach a summary of relevant SWMP and Appendix 2 activities to address the applicable TMDL parameter(s). (S7.A)	2016 Annual Report Narrative_45_01242017 010402
46	S8.A	Attach a description of any stormwater monitoring or stormwater-related studies as described in S8.A.	2016 Annual Report Narrative_46_01242017 010402
47	S8.B	Participated in the regional group to select, develop and conduct effectiveness studies as described in S8.B.	Yes
48	G3	Notified Ecology in accordance with G3 of any discharge into or from the Permittees MS4 which could constitute a threat to human health, welfare or the environment. (G3)	Yes
49	G3.A	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.	Yes
50	G20	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	Not Applicable
51	G20	Number of non-compliance notifications (G20) provided in reporting year.	
51b	G20	If applicable, list permit conditions described in non-compliance notification(s).	
52	S4.F.3.d	Attach a summary of the status of implementation of any actions taken pursuant to S4.F.3 and the status of any monitoring, assessment, or evaluation efforts conducted during the reporting period. (S4.F.3.d)	Not Applicable

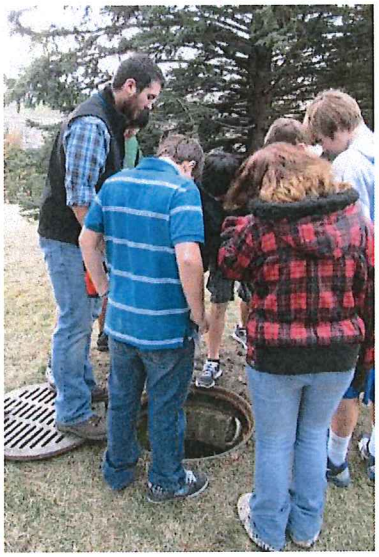
I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Gardes — **Signature**

2/2/2017 9:22:07 AM — **Date**

Stormwater Management Program (SWMP) Plan

Last Updated: January 24, 2017



Prepared By:

Stormwater Services Division
Public Works Department

Background

In 1987, Congress amended the federal Clean Water Act to include stormwater discharges in the National Pollutant Discharge Elimination System (NPDES) permit program. The Environmental Protection Agency (EPA) developed rules to implement the new stormwater requirements in two phases called Phase I and Phase II. The Washington State Department of Ecology (Ecology) implements these stormwater rules through municipal stormwater permits. The Phase I permit, which went into effect in 1990, covers large jurisdictions such as cities and counties serving more than 100,000 people. In 1999, EPA issued the Phase II stormwater permit regulations to cover stormwater discharges in urbanized areas that serve smaller populations (Ecology, 2006).

There are two separate Phase II municipal stormwater permits in the State of Washington, one for western Washington and one for eastern Washington. Ecology issued the NPDES Eastern Washington Phase II Municipal Stormwater Permit (Permit) in January 2007. The city of Pullman (City) applied for and was granted coverage under the Permit soon after. Eighteen other cities and six counties in eastern Washington are also covered under the Permit. The first Permit became effective February 16, 2007 and expired July 31, 2014. The second Permit became effective August 1, 2014 and is scheduled to expire July 31, 2019. This is the Permit the city is currently operating under. Washington State University (WSU) is covered under the same Permit, but is considered a "secondary permittee" within the jurisdiction of the City of Pullman.

The original Permit was designed to give jurisdictions an opportunity to develop their stormwater management programs and prepare for the second permit cycle which requires additional actions and an increased level of management and oversight. The City has spent the past ten years developing its stormwater management program in accordance with the requirements of the Permit, including adoption of new ordinances, updating policies and procedures, purchasing equipment, implementing projects and training staff.

The current Permit can be viewed in its entirety on Ecology's website below.

http://www.ecy.wa.gov/programs/wq/stormwater/municipal/phaseiiEwa/ewph2permit.html

Hatley Creek Storm Drainage Basin Study

In 2000, responding to citizen concerns and recognizing that stormwater runoff was a growing problem, the City hired consulting firm Gray & Osborne to conduct a study of the Hatley Creek drainage basin. Hatley basin is located in the southwest quadrant of town and drains approximately 760 acres (both city & county) which have experienced a high rate of development. The purpose of the study was to recommend a level of stormwater flow control that decreases the existing peak rate of stormwater runoff in the basin, as well as provide water quality benefits. As a result of the study, the City requires enhanced stormwater detention design standards for all new and re-development within the Hatley basin (Gray & Osborne, 2000).

The Water Quality Problem

Pullman's network of storm drains is classified as a municipal separate storm sewer system (MS4). The storm drain system is separate from and therefore does not convey stormwater to the City's wastewater treatment plant. Stormwater runoff has been identified by Ecology as "the number one water pollution problem in the urban areas of our state" (Ecology, 2007). Pollutants commonly found in stormwater include detergents, fertilizers, pesticides, vehicle fluids, litter, sediment and pet waste. Unmanaged stormwater and neglected infrastructure can also contribute to problems associated with flooding.

Most storm drains within Pullman empty directly into the South Fork Palouse River (SFPR) or one of its main tributaries that flow through town. The tributaries include Sunshine Creek, Paradise Creek, Dry Fork Creek, Missouri Flat Creek and Hatley Creek. According to Ecology, the SFPR is on the State's list of impaired water bodies for not meeting water quality criteria for temperature, dissolved oxygen, pH and fecal coliform bacteria. Ecology has completed a Water Clean-up Plan or Total Maximum Daily Load (TMDL) for fecal coliform bacteria and is in the process of developing TMDLs for the remaining parameters. TMDLs have also been completed for Ammonia-N and Toxics (PCBs & Dieldrin) for the larger Palouse River basin, including the SFPR. Water quality sampling related to the TMDLs has shown that Pullman's stormwater quality is similar to other urban areas across the nation, indicating a need for a robust stormwater management program.

Stormwater Management Program (SWMP) Plan

The Permit requires the City to develop and implement a comprehensive Stormwater Management Program (SWMP) Plan. An updated SWMP Plan documenting the actions the City plans to implement to satisfy State requirements and protect water quality is required to be made available to Ecology by March 31st and to the public by May 31st of each year. The most current SWMP Plan and other related documents are available on the City's Stormwater Services website below.

http://www.pullman-wa.gov/departments/stormwater-services

Early in 2007, the City hired consulting firm Otak, Inc. to assist with development of Pullman's first SWMP Plan. Otak worked closely with City staff and in September 2007 produced the *Final Stormwater Program Implementation Plan*. The Implementation Plan contains the following Sections:

- Background
- Stormwater Program Definition Process
- Regulatory Gap Analysis - Process & Results
- Detailed Annual Stormwater Program Implementation Matrices
- Resources Needed for Pullman's Updated Stormwater Program
  - Estimated Annual Program Revenue Needs & Sources
  - NPDES Equipment & Funding Needs
  - Capital Improvement Plan

As required by the Permit, the Implementation Plan addressed the following elements:

- Public Education and Outreach
- Public Involvement & Participation
- Illicit Discharge Detection & Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management for New Development and Redevelopment
- Pollution Prevention & Good Housekeeping for Municipal Operations
- Compliance with Total Maximum Daily Load (TMDL) Allocations
- Monitoring & Program Evaluation
- Reporting & Recordkeeping

In 2008 the City chose to create a Stormwater Services Division within the Public Works Department and hired a program manager to coordinate the activities identified in the Implementation Plan.

In January 2009, Otak, Inc. produced the *Stormwater Program Funding Alternatives and Financial Plan (FAFP)*. The FAFP included program and projected budget needs for the newly created program. The FAFP served as a necessary update to the Implementation Plan. Funding decisions related to the Stormwater Services Division now follow the City's annual budget development and approval process (see *Stormwater Utility* below).

Among other things, the Permit required the City to adopt ordinances addressing illicit discharge detection and elimination (IDDE), runoff from construction sites and post-construction stormwater management. The City adopted an IDDE ordinance in August 2009 which added a new Chapter 10.31 to Pullman City Code (PCC). The City also adopted a combined Construction and Post-Construction stormwater ordinance in January 2011 which added a new Chapter 10.32 to PCC.

A Stormwater Services Field Technician was hired in December 2009 to implement and enforce the provisions in these program areas. Also, in accordance with the Implementation Plan, stormwater program budget has been allocated to the Maintenance & Operations Division to perform maintenance activities related to the City's stormwater system. An operations and maintenance plan (O&M Plan) that prescribes regularly scheduled maintenance activities on the City's stormwater system has been developed. In 2011, the City purchased a jet-vactor truck and other specialized equipment to begin implementing the O&M Plan. Also, budget is made available to other City divisions and departments including the Engineering Division which is reimbursed with Stormwater funds when providing surveying, drafting, mapping and other technical support.

Stormwater Utility

Much like water supply and sanitary sewer systems, maintaining and replacing an aging storm drain infrastructure and providing other stormwater management services is very costly. In February 2009, the Pullman City Council created a storm drainage

and surface water management utility and corresponding enterprise fund to sustain the stormwater program. This provides a permanent tracking and financial planning mechanism as part of the city's overall budget development process. The annual budget for Stormwater Services is typically adopted by City Council in December of each year. The utility currently only charges fees for developed properties with impervious surfaces. In 2011, an Advisory Committee was formed to provide the City Council with a recommendation on whether or not undeveloped properties should also be charged a stormwater utility fee. After a six month facilitated process, the Advisory Committee recommended to not charge undeveloped properties.

The codified stormwater utility ordinance is located in Chapter 10.30 of PCC and can be viewed on the City's website below.

http://www.codepublishing.com/WA/Pullman/

Recent Activities

2016 saw successful implementation of the City's Stormwater Management Program. Notable activities included:

General Program Administration (including S5.A. and S9)

- Continued management of and compliance with the City's NPDES Phase II Municipal Stormwater Permit. The City's primary coordination mechanism is an official department head meeting scheduled weekly, at which time barriers to Permit compliance can be discussed and eliminated (meetings not held on weeks when Council meetings are cancelled).
- Updated the City's Stormwater Management Program Plan.
- Completed Stormwater portion of the City of Pullman (COP) Public Works 2015 Annual Report.
- Represented Pullman at the *Stormwater Management Manual for Eastern Washington* (SWMMEW) update meetings (1/8, 10/25).
- Represented Pullman at the Eastern Washington Stormwater Group (EWSWG) regional coordination meetings (5/26, 9/15).
- Coordinated City Employee Goal Setting for 2016.
- Completed Highway Runoff Manual Training (1 staff - 3/22-3/23).
- Completed all 4 Ladder Safety Training Certifications (2 staff).
- Coordinated Ecology permit manager site visit (8/23).
- Coordinated with Ecology (Permit Implementation) – On-going.
- Coordinated with WSU (Secondary Permittee) – On-going.
- Coordinated with other Permittees (EWSWG) – On-going.
- Received a grant from Washington State Department of Ecology totaling $25,000 for acquisition of asset inventory equipment and TMDL related water quality monitoring.

Public Education & Outreach (S5.B.1.)

- Pursued education and outreach efforts via website, news media, radio PSAs and

personal interaction with our customers.

- Partnered with PCEI, Pullman School District and private schools to integrate stormwater concepts into the 5th and 8th grade science curriculum, totaling 15 lessons delivered to 402 students.
- Other Stormwater K-12 Education
    - 2nd Grade Jefferson Elementary (6/2 - 75 students)
- Successfully implemented the Pullman Adopt-A-Stream Program. Stream Stewards were active on fifteen of the sixteen available segments. Stewards collectively participated in a total of 40 clean-up events throughout the year. Stormwater Services staff responded to 17 Steward requests for trash removal.
- Sponsored the 12th Annual Pullman Stream Clean-up event on April 16th. 268 volunteers spent a total of 804 hours cleaning Pullman streams by removing an estimated 6 cubic yards of litter and recyclables. Litter was removed from 4.4 miles of stream.
- Coordinated Missouri Flat Creek Riparian Restoration: WSU College of Agricultural, Human and Natural Resource Sciences (400 students).
- Coordinated independent volunteer stream clean-up on 4/2. 55 sorority members spent a total of 165 hours removing 2 cubic yards of trash & recyclables.
- Sponsored 1 WSU student intern seeking BS in Engineering (Spring 2016).
- Sponsored 1 Pullman High School Senior intern (Fall 2016).
- Mentored 1 WSU Senior Engineering Design student group project: *Whispering Hills 2.0 Underground Detention* (Spring 2016).
- Sponsored WSU Class Project – General Ecology (BIO 372): MFC Invertebrate Study
- Sponsored WSU Student Project – Leadership/Community (HD 415): Dog Doogity

Public Involvement (S5.B.2.)

- Posted Stormwater Management Program (SWMP) Plan on city website by May 31.
- Posted Phase II Municipal SW Permit 2015 Annual Report on city website by May 31.
- 2/23 – Prepared Council Meeting materials (Ecology Capacity Grant acceptance).
- 11/8 – Prepared response to Public Records Request.

Illicit Discharge Detection & Elimination (S5.B.3. & G3)

- Responded to, investigated, resolved and reported to Ecology 9 formal IDDE complaints.
- Responded to, investigated and resolved 24 other, non-IDDE related complaints including pet waste, solid waste, drainage, etc.
- Code Enforcement Action
    - Technical assistance provided. No formal action taken during this period.

Construction Site Runoff Control (S5.B.4.)

- Issued 83 City of Pullman Stormwater Permits for new and re-development projects.
- Reviewed 38 Site Plans and Stormwater Pollution Prevention Plans (SWPPPs) for large grading and new construction projects.
- Reviewed 76 Erosion and Sediment Control (ESC) plans for projects of Duplex size or smaller (mostly single family residential homes).

- Conducted 110 documented construction related erosion control inspections.
- Continued monitoring of an Inter-Agency agreement with WSU for regulation of Construction and Post-Construction activities. WSU EHS Dept. submits an annual report to Stormwater Services documenting these activities.
- Code Enforcement Action
    - Technical assistance provided. No formal action taken this period.

Post-Construction Stormwater Management (S5.B.5.)

- Reviewed 12 drainage reports and civil drawings of post-construction stormwater BMPs included in site plans for newly proposed development.
- Inspected 22 post-construction BMPs at 8 sites, during installation.
- Inspected 20 post-construction BMPs after project completion (within 5 years).
- Code Enforcement Action
    - Technical assistance provided. No formal action taken this period.
- Received 6 stormwater facility O&M plans.
- Completed construction of stormwater retrofits and Low Impact Development (LID) BMPs on 2 city owned parking lots (Neill Public Library & South Street Lot).
- Coordinated stormwater treatment BMP training for local design professionals (9/21).

Municipal Operations and Maintenance (S5.B.6.)

- Number of City Stormwater Facilities Inspected (excluding catch basins) – 10
    - Detention Ponds – 4
    - Treatment – 6
- Staff Training
    - Staff training (2): Stormwater Chemistry (9/12-9/14)
    - Staff training (6): Treatment BMP O&M (9/21)
- Spent an estimated 885.25 hours sweeping city streets (as reported by the M&O Division).
- Spent an estimated 1,311.25 hours on maintenance of the city's storm drain system (as reported by the M&O Division).
- Contact M&O Superintendent (Art Garro), Parks Superintendent (Alan Davis) and Public Works Director (Kevin Gardes) for additional information pertaining to municipal operations and facilities maintenance activities conducted in 2016.

Compliance with TMDLs (S7)

- Coordinated with Ecology's TMDL Lead on TMDL implementation.
- Coordinated with WSU-EHS on TMDL implementation.
- Continued implementation of pet waste management program, including:
    - Pet waste education/outreach radio PSAs.
    - Inspected and performed maintenance on 90 pet waste stations and 25 waste receptacles.
    - Installed 2 pet management signs by Lincoln Middle School.
    - 66 volunteer hours spent on pet waste stations in 2016 (filling with bags, removing waste, inspecting for damage, etc.).

- Completed DRAFT Dry Fork Creek (DFC) Fecal Coliform Bacteria Quality Assurance Project Plan (QAPP) and sent to Ecology for review.
- Completed Final DFC Fecal Coliform Bacteria QAPP and received approval by Ecology.
- Implemented DFC fecal coliform bacteria monitoring plan to assess progress toward TMDL waste load allocation reduction targets (2 samples taken at each of three sites, twice per month).
- Repaired and/or replaced public sanitary sewer lines and manholes (suspected fecal coliform bacteria sources) in nine locations, totaling 4,289 lineal feet and 26 manholes. Total cost: $763,000.
  Amount of sanitary sewer pipe repaired/replaced by drainage basin:
  - Missouri Flat Creek - 2,573 LF
  - Dry Fork Creek - 1,205 LF
  - Hatley Creek - 511 LF

Monitoring and Assessment (S8)

- Represented Pullman at the Effectiveness Monitoring meetings.
  - Regional Coordination - Moses Lake (1/28, 5/26)
  - Mobile Contractors Meeting (11/16)

Capital and Infrastructure Improvement Projects

- Completed construction of stormwater retrofits and Low Impact Development (LID) BMPs on two city owned parking lots (Neill Public Library & South Street Lot), including:
  - 2 Bioretention Swales
  - 1 Filterra Tree Box
  - 1 Contech CDS Hydrodynamic Separator Manhole
  - Porous asphalt – 76 tons (approx. 3,500 ft^2)
  - Permeable Interlocking Concrete Pavers – 8,505 ft^2

The following Stormwater Management Program activities are planned for 2017:

General Program Administration (including S5.A. and S9)

- Continue management of and compliance with the City's NPDES Phase II Municipal Stormwater Permit (Permit).
- Continue to track program costs, actions and activities.
- Continue to represent Pullman during the *Stormwater Management Manual for Eastern Washington* (SWMMEW) update process.
- Continue to represent Pullman on the Eastern Washington Stormwater Group (EWSWG).
- Coordinate with Ecology on Permit implementation.
- Coordinate with WSU on Permit implementation (Secondary Permittee).
- Coordinate with other Permittees (EWSWG).
- Complete and close-out $25,000 grant from Ecology for acquisition of asset inventory equipment and TMDL related water quality monitoring.
- Complete Phase II Municipal SW Permit 2016 Annual Report by March 31st.

Public Education & Outreach (S5.B.1.)

- Continue to implement the public education and outreach program strategy.
- Continue partnering with PCEI, the Pullman School District and private schools to challenge students with water quality and stormwater related exercises that complement the science curriculum in both the 5th and 8th grades.
- Partner with the Palouse Conservation District to provide Water-On-Wheels program lessons to Pullman 3rd graders (pilot for 2017).
- Continue partnering with PCEI to implement the Adopt-A-Stream program, where community groups and/or businesses can "adopt" a segment of stream in town and then be responsible for keeping it clean. Signage is installed to identify the groups and the program. As of January 1, 2017, all 16 of the identified segments of stream have been adopted, with 15 being actively cleaned.
- Continue partnering with PCEI by sponsoring the 13th Annual Stream Clean-up event in April. Other major partners involved in the Stream Clean-up include Pullman Parks & Recreation, Pullman Transit, Pullman Disposal Service, Pullman Civic Trust and numerous local businesses that donate food and other materials for the event.
- Continue coordination of Missouri Flat Creek Riparian Restoration Project: WSU College of Agricultural, Human and Natural Resource Sciences (~400 students).
- Sponsor 1 Pullman High School Senior intern (Spring 2017).

Public Involvement (S5.B.2.)

- Post Stormwater Management Program (SWMP) Plan on city website by May 31.
- Post Phase II Municipal SW Permit 2015 Annual Report on city website by May 31.
- Prepare for and attend City Council Meetings.
- Respond to Public Records Requests.

Illicit Discharge Detection & Elimination (S5.B.3. & G3)

- Continue implementing and enforcing PCC 10.31 to prohibit illicit discharges.
- Continue implementing the City's IDDE compliance strategy.
- Provide IDDE training to municipal staff.
- Maintain and monitor the IDDE citizen hotline.
- Maintain a map of the City's MS4.
- Respond to, investigate, resolve and report to Ecology formal IDDE events.
- Respond to, investigate and resolve other, non-IDDE related complaints including pet waste, solid waste, drainage, etc.

Construction Site Stormwater Runoff Control (S5.B.4.)

- Continue implementing and enforcing construction related elements within PCC 10.32 to reduce pollutants from construction activities.
- Issue City of Pullman Stormwater Permits for new and re-development projects.
- Review Site Plans and Stormwater Pollution Prevention Plans (SWPPPs) for large grading and construction projects.
- Review Erosion and Sediment Control (ESC) plans for projects of Duplex size or smaller (mostly single family residential homes).
- Conduct construction related erosion control inspections.

- Continue administration of an Inter-Agency agreement with WSU for regulation of Construction and Post-Construction activities on campus. WSU's Environmental Health and Safety (EHS) Department submits an annual report to Stormwater Services in February documenting these activities.
- Provide training for City staff, and information on training to construction operators.

Post-Construction Stormwater Management (S5.B.5.)

- Continue implementing and enforcing post-construction elements within PCC 10.32.
- Review drainage reports and civil drawings of post-construction stormwater BMPs included in site plans for newly proposed development.
- Inspect post-construction BMPs at construction sites, during installation.
- Inspect post-construction BMPs after project completion (within 5 years).
- Ensure stormwater facility O&M plans are provided for large projects with post-construction BMPs.
- Provide information on post-construction BMPs for local design professionals.
- Update City Design Standards to require **retention** of the 10-year, 24-hour storm event and develop criteria to determine when it is infeasible for a project to meet this requirement.

Municipal Operations and Maintenance (S5.B.6.)

- Continue implementation of the City's Stormwater Operations and Maintenance (O&M) Plan.
- Inspect City stormwater treatment and flow control facilities.
- Spot check City stormwater treatment and flow control facilities after major storm events (10-year, 24-hour or larger).
- Perform maintenance on City stormwater facilities and infrastructure.
- Repair damaged City stormwater facilities and infrastructure.
- Update the City's Stormwater Operations and Maintenance Plan by December 31st.
- Develop Stormwater Pollution Prevention Plans (SWPPPs) for the City's material storage, heavy equipment storage and maintenance areas.
- Provide City staff training.

Compliance with TMDLs (S7)

- Coordinate with Ecology's TMDL Lead on TMDL implementation.
- Coordinate with WSU-EHS on TMDL implementation.
- Continue implementation of pet waste management program, including:
    - Pet waste education/outreach radio PSAs.
    - Inspect and perform maintenance on 90 pet waste stations and 25 waste receptacles.
    - Install pet management signs as needed.
    - Coordinate volunteer activities.
- Continue implementation of the Dry Fork Creek fecal coliform bacteria monitoring plan.
- Complete DRAFT Fecal Coliform Bacteria TMDL Waste Load Allocation (WLA) Progress Study QAPP and send to Ecology for review.

- Complete Final Fecal Coliform Bacteria TMDL WLA Progress Study QAPP and receive approval by Ecology.
- Implement Fecal Coliform Bacteria TMDL WLA Progress Study.
- By February 28th, develop and submit to Ecology a Four-Year Action Plan for stormwater outfalls not meeting the waste load allocation reduction targets.
- During the SEPA process, continue considering the potential for projects to increase runoff and sources of fecal coliform bacteria (City of Pullman Public Works and Planning Departments).
- Repair and/or replace 1,700 linear feet of public sanitary sewer lines and 5 sanitary sewer manholes suspected of being sources of fecal coliform bacteria to the City's stormwater system and/or surface waters.
  Sanitary sewer projects planned for 2017 (by drainage basin):
    - Dry Fork Creek
        - Mies Sanitary Sewer
        - Rocky Way Sanitary Sewer

Monitoring and Assessment (S8)

- Continue to collaborate with other Permittees during the Effectiveness Studies process.
- By June 30th, submit to Ecology 8 to 12 detailed study proposals for review and approval.

Stormwater Capital and Infrastructure Improvement Projects

Inspections of Pullman's MS4, both scheduled and a result of service requests have revealed a need for repair and/or replacement of portions of the City's stormwater infrastructure.

Stormwater infrastructure projects planned for 2017:

- Mies Storm
- Maple Street Path Storm
- Turner Storm

Contacts

Questions about Pullman's Stormwater Management Program can be directed to:

Rob Buchert
Stormwater Services Program Manager
City of Pullman
325 SE Paradise St.
Pullman, WA 99163
(509) 338-3314
rob.buchert@pullman-wa.gov

Questions about the Eastern Washington Phase II Municipal Stormwater Permit can be directed to:

David Duncan
Municipal Stormwater Permit Manager
WA Dept. of Ecology
4601 North Monroe Street
Spokane, WA 99205
(509) 329-3554
ddun461@ecy.wa.gov

References

Gray & Osborne, Inc. 2000. *Hatley Creek Storm Drainage Basin Study*.

Washington State Department of Ecology. 2006. *Frequently Asked Questions about Municipal Stormwater Permits*. Publication No. 06-10-005 (revised).

Washington State Department of Ecology. 2007. *Protecting Washington's Waters From Stormwater Pollution*. Publication No. 07-10-05.

ORDINANCE NO. 16-19

AN ORDINANCE ANNEXING TO THE CITY OF PULLMAN CERTAIN CONTIGUOUS REAL PROPERTY LOCATED SOUTH OF WAWAWAI ROAD BETWEEN SW GOLDEN HILLS DRIVE AND STATE ROUTE 195.

WHEREAS, a petition was filed with the finance director of the city of Pullman to annex the hereinafter described real estate, which petition was signed by the owners of a majority of the property for which annexation was petitioned, and upon the filing of said petition, the date and time of a hearing was set for Tuesday, December 6, 2016, at 7:00 p.m.; and,

WHEREAS, notice of said hearing having been given by posting and publication as required by law; and,

WHEREAS, the petitioner has petitioned Whitman County Public Hospital District No. 1A for annexation of the real estate herein described to said Hospital District; and,

WHEREAS, there being no requirement of review by the Annexation Review Board; and,

WHEREAS, the City Council finding that the pre-zone designations for said property are R1 Single Family Residential and C3 General Commercial as provided for in Pullman City Ordinance No. 13-9; and,

WHEREAS, this being the date, place, and time for hearing on this proposed annexation; the City Council having considered all comments in opposition to and in support of the proposed annexation; and having approved and set forth its Findings of Fact and Conclusions, and having considered the proposed annexation itself, and believing said annexation to be in the best interests of the city of Pullman; now, therefore,

THE CITY COUNCIL OF THE CITY OF PULLMAN DOES ORDAIN AS FOLLOWS:

SECTION 1: That there is hereby annexed to the city of Pullman a parcel of land located south of Wawawai Road between SW Golden Hills Drive and State Route 195, which is more particularly described in Exhibit "A", attached hereto and by this reference made a part hereof as though set forth in full herein, and shown on the map marked Exhibit "B", attached hereto and by this reference made a part hereof as though set forth in full herein.

SECTION 2: That the above-described area which is annexed to the city of Pullman shall be required to assume its proportionate share of outstanding city indebtedness, to the extent permitted by law.

SECTION 3: That the above-described area shall be, from and after the date of its annexation to the city of Pullman, subject to the zoning code, together with any amendments thereto and all other ordinances of the city of Pullman relating to use, occupation, and enjoyment of land located within the city of Pullman.

SECTION 4: This ordinance shall be in full force and take effect five (5) days from and after its publication, or a summary thereof is published, in the Moscow-Pullman Daily News, the official newspaper of the city of Pullman.

PASSED by the City Council of the city of Pullman at a regular meeting held on the 6th day of December, 2016.

SIGNED by the Mayor in Authentication and Approval Thereof on the 7th day of December, 2016.

Glenn A. Johnson
Mayor

ATTEST:

Leann L. Hubbard
Finance Director

Approved as to Form:

Laura McAloon
City Attorney

FILED
DEC 07 2016
CITY CLERK'S OFFICE
PULLMAN WASHINGTON

Published: December 10, 2016

LEGAL DESCRIPTION
Germain Farms Annexation

A parcel of land situate within the Southwest Quarter of Section 1, Township 14 North, Range 44 East, Willamette Meridian, Whitman County, State of Washington, and is further described as follows:

BEGINNING at The South Quarter Corner of said Section 1 (South 00°46'10" West 2,675.18 Feet from a Brass Cap Monument marking the Center of said Section 1);
Thence South 87°22'52" West 1,667.18 Feet, along the Southerly Boundary of said Section 1, to a point on the Easterly Right of Way (ROW) Boundary of SR 195;
Thence the following six courses along said Easterly ROW Boundary:

1. North 18°57'47" West 244.90 Feet,
2. North 09°06'34" East 85.00 Feet,
3. North 18°57'47" West 150.00 Feet,
4. North 38°15'11" West 105.95 Feet,
5. North 18°57'47" West 203.21 Feet, to a point of curvature (PC),
6. 1,299.54 Feet, along a curve concave Easterly (Central Angle = 06°31'32", Radius = 11,410.00 Feet) with its Long Chord Bearing North 15°42'01" West 1,298.84 Feet, to the Southwest Corner of Parcel 1 of the Harlow Properties Short Plat as recorded under Whitman County Auditor's File Number 492555;

Thence South 88°11'50" East 495.80 Feet, leaving said Easterly ROW Boundary and running along the Common Boundary of Parcel 1 and Parcel 2 of said Harlow Properties Short Plat, to the Southeast Corner of said Parcel 1;
Thence North 00°33'51" East 240.87 Feet, to the Northeast Corner of said Parcel 1 and being a point on the Southerly ROW Boundary of Old Wawawai Road (County Road Number 9011);
Thence North 05°24'14" East 98.40 Feet, across said Old Wawawai Road to a point on the Northerly ROW Boundary of said Old Wawawai Road;
Thence the following four courses along said Northerly ROW Boundary:

1. South 84°35'46" East 12.75 Feet, to a PC,
2. 261.94 Feet, along a curve concave Northerly (Central Angle = 16°35'00", Radius = 905.00 Feet) with its Long Chord Bearing North 87°06'44" East 261.02 Feet, to a point of tangency,
3. North 78°49'14" East 1,173.65 Feet, to a PC,
4. 366.73 Feet, along a curve concave Southerly (Central Angle = 20°54'28", Radius = 1,005.00 Feet) with its Long Chord Bearing North 89°16'28" East 364.70 Feet, to a point on the North – South Subdivision line of said Section 1 (South 00°46'10" West 200.64 Feet from the Center of said Section 1);

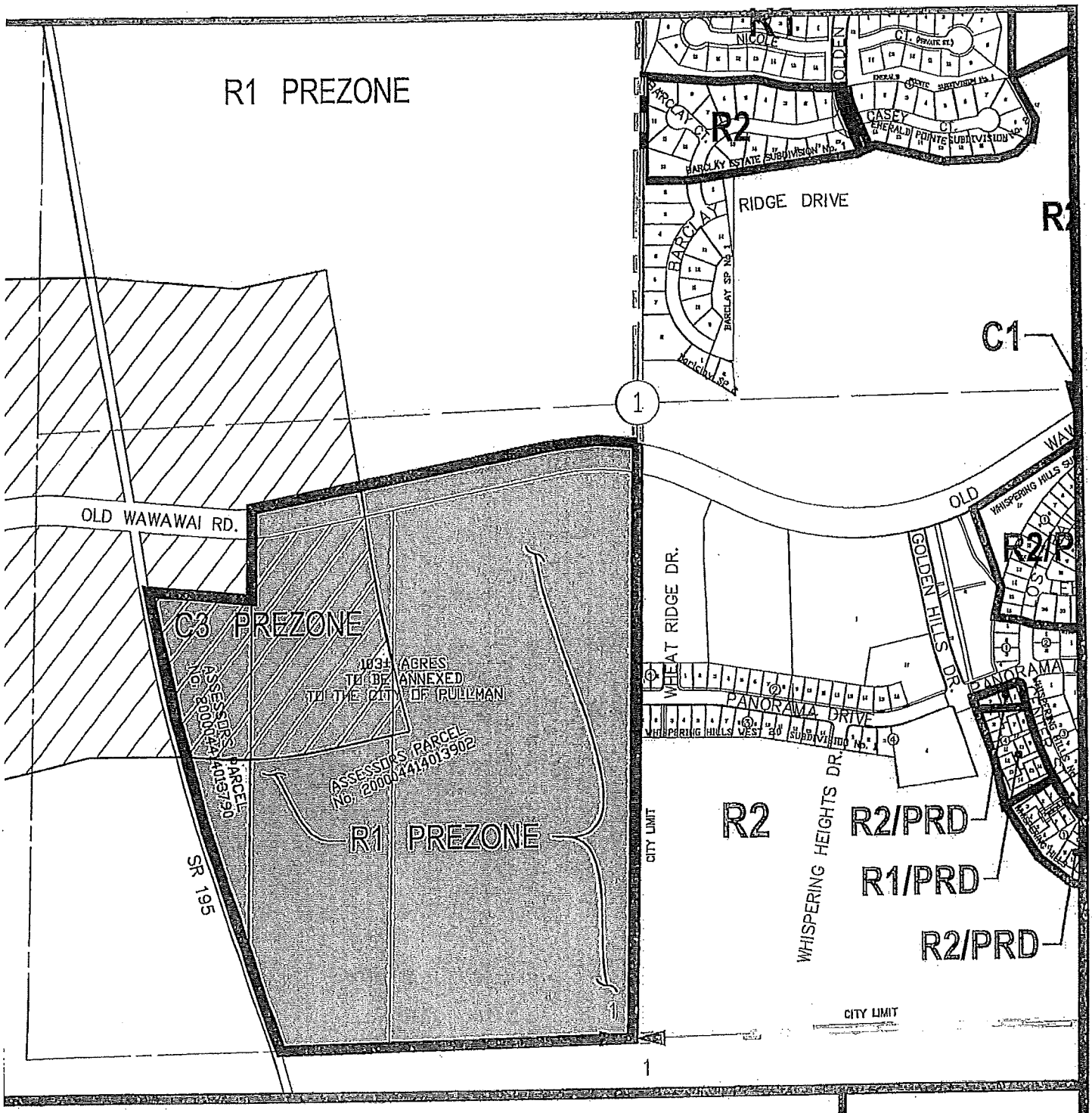
Thence South 00°46'10" West 2,474.54 Feet, along the North – South Subdivision line of said Section 1, to the **POINT OF BEGINNING.**

Area of said described Parcel is 107.9 Acres more or less.

Subject to all easements of record.
Subject to conditions that a Title Report would disclose.

Approved for Form:

Engineering Technician — Date 11/08/16



SUBJECT PROPERTY

C3 PREZONE

CITY LIMITS

ZONING DISTRICT BOUNDARY

NORTH

P:\Engr & CAD\PLANNING-PD-PARKS-M&O DOCUMENTS\PLANNER\Annex\Germain Farms Annexation L-Z Map.dwg

LOCATION & ZONING MAP

EXHIBIT "B"

GERMAIN FARMS ANNEXATION

Eastern Washington Phase II Municipal Stormwater Permit
Annual Report 2016

Public Outreach

5 - Education & Stewardship

- Pursued education and outreach efforts via website, news media, radio PSAs and personal interaction with our customers.
- Partnered with PCEI, Pullman School District and private schools to integrate stormwater concepts into the 5th and 8th grade science curriculum, totaling 15 lessons delivered to 402 students.
- Delivered stormwater education to 2nd Grade Jefferson Elementary students (6/2 - 75 students)
- Successfully implemented the Pullman Adopt-A-Stream Program. Stream Stewards were active on fifteen of the sixteen available segments. Stewards collectively participated in a total of 40 clean-up events throughout the year. Stormwater Services staff responded to 17 Steward requests for trash removal.
- Sponsored the 12th Annual Pullman Stream Clean-up event on April 16th. 268 volunteers spent a total of 804 hours cleaning Pullman streams by removing an estimated 6 cubic yards of litter and recyclables. Litter was removed from 4.4 miles of stream.
- Coordinated Missouri Flat Creek Riparian Restoration: WSU College of Agricultural, Human and Natural Resource Sciences (400 students).
- Coordinated independent volunteer stream clean-up on 4/2. 55 sorority members spent a total of 165 hours removing 2 cubic yards of trash & recyclables.
- Sponsored 1 WSU student intern seeking BS in Engineering (Spring 2016).
- Sponsored 1 Pullman High School Senior intern (Fall 2016).
- Mentored 1 WSU Senior Engineering Design student group project: *Whispering Hills 2.0 Underground Detention* (Spring 2016).
- Sponsored WSU Class Project – General Ecology (BIO 372): MFC Invertebrate Study
- Sponsored WSU Student Project – Leadership/Community (HD 415): Dog Doogity

6 – Public Participation

- The most current version of our SWMP Plan is made available in hard copy at our office and electronically on our website (www.pullman-wa.gov). Citizens are invited to provide input.
- The most current version of our Phase II Municipal SW Permit Annual Report is made available on our website (www.pullman-wa.gov). Citizens are invited to provide input.
- Stormwater related issues are frequently discussed at City Council meetings, at which members of the public are encouraged to provide input.
- Program elements are tied to the City's Annual Budget approval process. Community members are encouraged to review and comment on the Preliminary Budget which includes a narrative of the Stormwater Program's planned expenses and activities.

IDDE

17 – Summary of Actions

- Responded to, investigated, resolved and reported to Ecology nine formal IDDE complaints.
- Responded to, investigated and resolved 24 other, non-IDDE related complaints including pet waste, solid waste, drainage, etc.
- With respect to code enforcement, only technical assistance and education was provided. No formal enforcement action taken during this period.

TMDLs

45 – Summary of Relevant Activities

- Coordinated with Ecology's TMDL Lead on TMDL implementation.
- Coordinated with WSU-EHS on TMDL implementation.
- Continued implementation of pet waste management program, including:
    - Pet waste education/outreach radio PSAs.
    - Inspected and performed maintenance on 90 pet waste stations and 25 waste receptacles.
    - Installed 2 pet management signs by Lincoln Middle School.
    - 66 volunteer hours spent on pet waste stations in 2016 (filling with bags, removing waste, inspecting for damage, etc.).
- Completed DRAFT Dry Fork Creek (DFC) Fecal Coliform Bacteria Quality Assurance Project Plan (QAPP) and sent to Ecology for review.
- Completed Final DFC Fecal Coliform Bacteria QAPP and received approval by Ecology.
- Implemented DFC fecal coliform bacteria monitoring plan to assess progress toward TMDL waste load allocation reduction targets (2 samples taken at each of three sites, twice per month).
- Repaired and/or replaced public sanitary sewer lines and manholes (suspected fecal coliform bacteria sources) in nine locations, totaling 4,289 lineal feet and 26 manholes. Total cost: $763,000.

  Amount of sanitary sewer pipe repaired/replaced by drainage basin:
    - Missouri Flat Creek - 2,573 LF
    - Dry Fork Creek - 1,205 LF
    - Hatley Creek - 511 LF
- Increased runoff and sources of fecal coliform bacteria were considered during SEPA review.

Monitoring

46 – Stormwater Studies

- Dry Fork Creek (DFC) Fecal Coliform Bacteria Monitoring: Implemented DFC fecal coliform bacteria monitoring plan in October 2016 to assess progress toward meeting TMDL waste load allocation reduction targets (2 samples taken at each of three sites, twice per month). Too early in the study to draw any conclusions. Study will continue through 2017 and possibly 2018.